

IN THE CLAIMS

1. (currently amended) A digital signal receiver, comprising:

a reception processor operable to receive a broadcast ~~reception-signal containing information that includes repeating~~ data and to use a browser to cause said information the repeating data to be displayed ~~by on~~ a display unit ~~by using a browser~~; and

a distributed information storage unit operable to obtain ~~said information the repeating data~~ from said reception processor, to separate one period of data from the repeating data, and to store said information the one period of data in a data storage device;

said distributed information storage unit being further operable to read said information the one period of data stored in said from the data storage device in response to a received command, to restore the repeating data using the one period of data and to supply said read information data to said reception processor for display, said distributed information storage unit including a table-of-contents generating unit operable to generate a menu frame representing plural information of items contained in said read information associated with the one period of data, and a table-of-contents information reforming unit operable to convert the reform said menu frame into table-of-contents information menu data having a signal-format which that can be displayed on said display unit used by said the browser, and to deliver at least one of the repeating data and the menu data to said reception processor.

2. (currently amended) The digital signal receiver as claimed in claim 1, wherein said distributed information storage unit includes ~~said the~~ data storage device.

3. (currently amended) The digital signal receiver as claimed in claim 1, wherein said distributed information

~~storage table of contents generating unit~~ is operable to ~~generate said select items for inclusion in the menu frame for each user by inputting based on preferences information for each said associated with a given user.~~

4. (currently amended) The digital signal receiver as claimed in claim 1, wherein said distributed information storage table of contents generating unit is operable to ~~generate said arrange items included in the menu frame by inputting information based on priorities of contents which associated with a given user wants to watch/listen to.~~

5. (currently amended) The digital signal receiver as claimed in claim 1, wherein said reception processor ~~includes an encryption unit is further operable to encrypt said information the repeating data before said information the repeating data~~ is obtained by said distributed information storage unit, and said distributed information storage unit ~~further includes a decryption unit is further operable to decrypt said information the encrypted data to obtained the repeating data~~ from said reception processor.

6. (currently amended) The digital signal receiver as claimed in claim 1, wherein said distributed information storage unit is further includes an encryption unit operable to encrypt ~~said read information the at least one of the repeating data and the menu data before said read information the at least one of the repeating data and the menu data~~ is supplied to said reception processor, and said reception processor ~~includes a decryption unit is further operable to decrypt said read information the encrypted data supplied from by said distributed information storage unit.~~

7. (currently amended) The digital signal receiver as claimed in claim 1, wherein said ~~information data the broadcast signal~~ is transmitted during a vacant broadcast ~~vacant~~ time.

8. (currently amended) A digital signal display method, comprising:

~~receiving a broadcast signal containing information that includes repeating data;~~

~~separating one period of data from the repeating data;~~

~~storing said information the one period of data in a data storage device;~~

~~reading out said stored information the one period of stored data in response to a command from said data storage device;~~

~~restoring the repeating data using the one period of stored data displaying said read information data on a display unit using a browser;~~

~~generating a menu frame representing plural information of items contained in said read information associated with the one period of data;~~

~~converting reforming said the menu frame into menu data table of contents information having a signal format which that can be displayed on said display unit using said used by a browser; and~~

~~using the browser to displaying said table of contents information at least one of the repeating data and the menu data on said a display unit using said browser.~~

9. (currently amended) The digital signal display method as claimed in claim 8, wherein said receiving step is carried out by a first unit, said separating step is carried out by a second unit, and said method further comprises:ing encrypting the repeating data and decrypting said information data after said receiving step, sending the encrypted data from the first unit to the second unit, and decrypting the encrypted data of receiving said broadcast signal and before said separating step of storing said information data in said data storage device.

10. (currently amended) The ~~digital signal display~~ method as claimed in claim 8, wherein said converting step is carried out by a first unit, said step of using the browser is carried out by a second unit, and said method further comprises: ~~ing~~ encrypting the at least one of the repeating data and the menu data, sending the encrypted data from the first unit to the second unit, and decrypting ~~said read information~~ the encrypted data before said step of using the browser~~read information data is displayed.~~

11. (cancelled)

12. (new) The digital signal receiver as claimed in claim 1, wherein said distributed information storage unit is further operable to encrypt the one period of data before the one period of data is stored in the data storage device, to read the encrypted data from the data storage device in response to the received command, and to decrypt the encrypted data to obtain the one period of data.

13. (new) The digital signal receiver as claimed in claim 1, wherein the repeating data includes charge-based data, and said distributed information storage unit is further operable to accumulate billing data in a watch record whenever the one period of data is read from the data storage device.

14. (new) The digital signal receiver as claimed in claim 13, wherein said distributed information storage unit is further operable to periodically send the billing data to said reception processor for transmission to a management center.

15. (new) The method as claimed in claim 8, wherein said storing step includes encrypting the one period of data and storing the encrypted data, and said reading out step includes reading out the encrypted data in response to the received command and decrypting the encrypted data to obtain the one period of data.

16. (new) The method as claimed in claim 8, wherein the repeating data includes charge-based data, and said method further comprises: accumulating billing data in a watch record whenever said step of reading out the one period of stored data is carried out.

17. (new) The method as claimed in claim 16, further comprising: periodically transmitting the billing data to a management center.